PUBLIC NOTICE

File Number: NRS 14.171

Pursuant to Chapter 0400-4-7 of the Department's rules, the proposed activity described below has been submitted for approval under an Aquatic Resource Alteration Permit and §401 Water Quality Certification. This notice is intended to inform interested parties of this permit application and to ask for comments and information necessary to determine possible impacts to water quality. No decision has been made whether to issue or deny this application.

APPLICANT: Charlie Tummins
1210 N. Hurricane Creek Rd.
McEwen, TN 37101
931-582-6946

LOCATION: Hurricane Creek, 1210 N. Hurricane Creek Rd, McEwen, Humphreys County, TN (Lat: 36.104596/ Lon:-87.575026)

PROJECT DESCRIPTION: Install 615 ft. of single bank NRCS stabilization along Hurricane Creek for erosion repair.

Impact 1: Latitude: 36.10511 Longitude: -87.575528
Hurricane Creek

Install 185 ft. of single bank stabilization along Hurricane Creek to repair 6 ft. vertical bank erosion. The repair would consist of re-grading the stream banks, armoring the toe of slop with riprap (not to exceed half bank) and the remaining slope stabilized with seeding, planting shrubs and trees and the preservation of a 35 ft. riparian forested buffer at the top of bank.

Impact 2: Latitude: 36.105222 Longitude: -87.575444
Hurricane Creek

Install 240 ft. of single bank stabilization along Hurricane Creek to repair 8 ft. vertical bank erosion. The repair would consist of re-grading the stream banks, armoring the toe of slop with riprap (not to exceed half bank) and the remaining slope stabilized with seeding, planting shrubs and trees and the preservation of a 35 ft. riparian forested buffer at the top of bank.

Impact 3: Latitude: 36.105389 Longitude: -87.573778
Hurricane Creek

Install 190 ft. of single bank stabilization along Hurricane Creek to repair 7 ft. vertical bank erosion. The repair would consist of re-grading the stream banks, armoring the toe of slop with riprap (not to exceed half bank) and the remaining slope stabilized with seeding, planting shrubs and trees and the preservation of a 35 ft. riparian forested buffer at the top of bank.

DEGRADATION: In accordance with the Tennessee Antidegradation Statement (Rule 0400-40-03-.06), the division has determined that the proposed activities will not result in degradation to water quality.

WATERSHED / WATERBODY DESCRIPTION: **WATERSHED / WATERBODY DESCRIPTION:** Hurricane creek flows into the Lower Duck River watershed. The Lower Duck River Watershed is located in Middle Tennessee and includes parts of Dickson, Giles, Hickman, Humphreys, Lawrence, Lewis, Maury, Perry and Williamson counties. It drains approximately 1,548 square miles and empties to the Tennessee Western Valley Watershed. There are 81 known rare plant and animal species in the Lower Duck River Watershed. For more information on this watershed please visit:
http://www.state.tn.us/environment/water/watersheds/lower-tennessee-river.shtml

Hurricane Creek is in the Western Highland Rim (71f) ecoregion. The channel dimensions are as follows: channel bottom width 100 ft., channel top width 100, water depth variable up to 3', and bank height 6-8 ft. typical substrate in this section is comprised of cobble/gravel. The surrounding land use is rural agricultural.

Hurricane Creek was assessed in 2014. It is supporting its designated uses.

Stream Name / ID #:	Hurricane Creek	
Ecoregion:	Western Highland Rim (71f)	
Stream Dimension:	Channel bottom width	100
	Chanel top width	100
	Water depth	variable up to 3'
	Bank height	6-8'
Substrate:	cobble/gravel	

Designated Use	**Use Support**
Fish and aquatic life	fully supporting
Recreation	fully supporting
Industrial water supply	fully supporting
Irrigation	fully supporting
Livestock watering & wildlife	fully supporting

Assessment Date: 2014

PERMIT COORDINATOR: Brian Canada

FACTORS CONSIDERED: In deciding whether to issue or deny a permit, the department will consider all comments of record and the requirements of applicable federal and state laws. In making this decision, a determination will be made regarding the lost value of the resource compared to the value of any proposed mitigation. The department shall consider practicable alternatives to the alteration. The department shall also consider loss of waters or habitat, diminishment in biological diversity, cumulative or secondary impacts to the water resource, and adverse impact to unique, high quality, or impaired waters.

COMMENTING: Persons wishing to comment on the proposal are invited to submit written comments to the department. Written comments must be received within **thirty days of the date that this notice is posted**. Comments will become part of the record and will be considered in the final decision. The applicant's name and permit number should be referenced. Send all

written comments to the department's address listed below and to the attention of the permit coordinator.

PUBLIC HEARING: Interested persons may request in writing that the department hold a public hearing on this application. The request must be filed within the comment period, indicate the interest of the person requesting it, the reasons that the hearing is warranted, and the water quality issues being raised. When there is sufficient public interest in water quality issues, the department will hold a public hearing. Send all public hearing request to the department's address listed below and to the attention of the permit coordinator.

APPEAL: A permit appeal may be filed, pursuant to T.C.A. §§ 69-3-105(i) and Rule 0400-40-05, by the permit applicant or by any aggrieved person who participated in the public comment period announced by this notice. This petition must be filed within THIRTY (30) DAYS after public notice of the issuance of the permit. The petition must specify what provisions are being appealed and the basis for the appeal. It should be addressed to the technical secretary of the Tennessee Board of Water Quality, Oil and Gas at the following address: Dr. Sandra Dudley, Director, Division of Water Resources, William R. Snodgrass Tennessee Tower, 312 Rosa L. Parks Ave, 12th floor, Nashville, TN 37243. Any hearing would be in accordance with T.C.A. §§69-3-110 and 4-5-301 et seq.

FILE REVIEW: The permit application, supporting documentation including detailed plans and maps, and related comments are available at the department's address (listed below) for review and/or copying.

Tennessee Department of Environment & Conservation
Division of Water Resources, Natural Resources Unit
William R. Snodgrass Tennessee Tower
312 Rosa L. Parks Avenue, 11th Floor
Nashville, Tennessee 37243

Site Data

Parameter	Value		Source
Drainage Area	9.4	sq mile	USGS Streamstats
USGS Regression 2 yr flow	1150	cfs	USGS Streamstats
Average Bank Height	6	ft	Field Survey
Job Class	5		NEM, Part 501, Amend TN1, 2012

SITE SKETCH WITH LATITUDE/LONGITUDE
not to scale

Notes:

1. This drawing applies to sites with a Job Class of 5 and below, with a total project length of 300 feet or less, and bank heights of 12 feet or less. If a site specific design would be more appropriate, contact the Area Engineering staff.
2. Materials: Use TDOT Class B rock riprap with D50=15 inches, pieces ranging from 6 to 27 inches. Use gravel bedding or 8 oz nonwoven geotextile between rock and soil. Refer to 580 Specification.
3. NRCS Engineer's representative will stake actual limits in the field.
4. See Construction Specifications (CS-580) for streambank vegetation establishment guidelines.
5. Locating and protecting utilities is the owner's responsibility. Call 811.
6. Contractor is responsible for verifying site conditions and informing NRCS and Engineer of any changes that may affect design. All changes to this standard design must be approved by the Engineer prior to installation.
7. When rain is forecasted between work sessions, contractor is responsible for placing geotextile or other NRCS-approved erosion control material on disturbed slopes.
8. Landowner is responsible for obtaining permit coverage for construction activities. Contractor is responsible for ensuring all work is performed in accordance with all permits.
9. Install erosion blanket according to detail and table, this sheet. Use pins with a minimum length of 8 inches and a minimum diameter of 3/16". At the top of bank, place blanket 12" into the flood plain and anchor as shown.
10. If NRCS representative provides documentation on limitations or restrictions that rule out this treatment alternative, continue rock riprap placement to the top of bank. Indicate rock placement intentions by checking appropriate box on Section A or Section B (sheet 2).
11. Extend keyways into bank at upstream and downstream ends, 8 ft minimum. If keyway depth cannot be achieved in the field, use a continuous row of 36" diameter boulders at the lowest practical elevation.

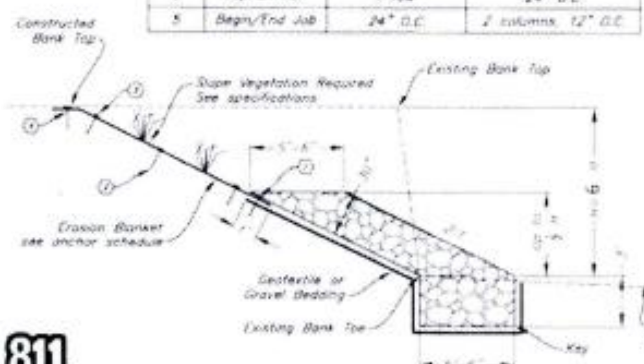
Erosion Blanket Anchor Schedule

Mark	Location	Row Spacing	Column Spacing
1	Under Riprap	12" (2 rows)	24" staggered
2	On Slope	3' O.C.	4' O.C.
3	Top of slope	1 row	24" O.C.
4	Top on flat	1 row	24" O.C.
5	Begin/End Job	24" O.C.	2 columns, 12" O.C.

Estimated Quantities*

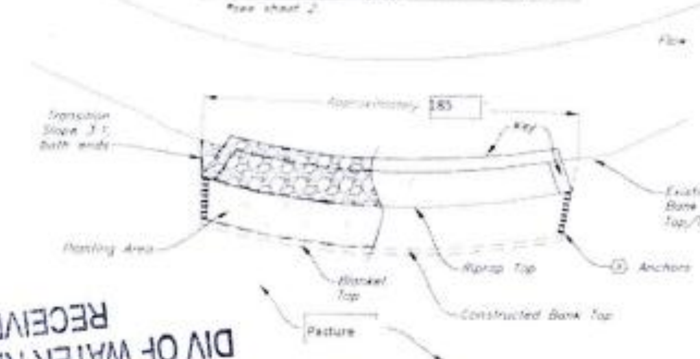
Item	Quantity	Unit
Rock Riprap	376	ton
Excavation	359	cu yd
Geotextile or Bedding	457	sq yd
Veg. Planting Area	139	sq yd

*see sheet 2



(A) HALF BANK RIPRAP - TYPICAL SECTION
not to scale

☑ Check Box proposed section



PLAN VIEW - TYPICAL SITE
not to scale

Know what's below. Call before you dig. 811

DIV OF WATER RESOURCES
RECEIVED
JUL 0 1 2013

NRCS
Natural Resources Conservation Service
United States Department of Agriculture

Owner: Tummins - Site 1
Streambank & Shoreline Protection
NRCS Conservation Practice Standard 580
Typical Treatment, Partial Bank Revetment
Humphreys County, TN

		Date
Designed	Brown	
Drawn	Rose-Nolin/Brown	06/13
Checked	Brown	
Approved	Brown	

File No.
Job Class 5
Sheet 1 of 2

Site Data		
Parameter	Value	Source
Drainage Area	9.4 sq mile	USGS Streamstats
USGS Regression 2 yr flow	1150 cfs	USGS Streamstats
Average Bank Height	8 ft	Field Survey
Job Class	5	NEM, Part 501, Amend TN1, 2012

SITE SKETCH WITH LATITUDE/LONGITUDE
not to scale

Notes:

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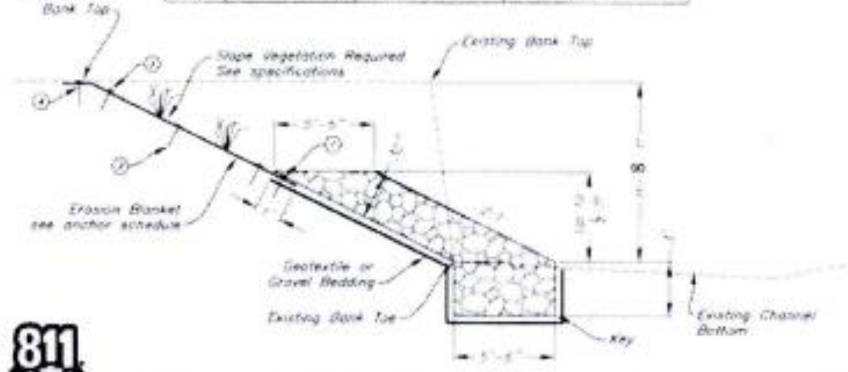
3. NRCS Engineer's representative will stake actual limits in the field.
4. See Construction Specifications (CS-580) for streambank vegetation establishment guidelines.
5. Locating and protecting utilities is the owner's responsibility. Call 811.
6. Contractor is responsible for verifying site conditions and informing NRCS and Engineer of any changes that may affect design. All changes to this standard design must be approved by the Engineer prior to installation.
7. When rain is forecasted between work sessions, contractor is responsible for placing geotextile or other NRCS-approved erosion control material on disturbed slopes.
8. Landowner is responsible for obtaining permit coverage for construction activities. Contractor is responsible for ensuring all work is performed in accordance with all permits.
9. Install erosion blanket according to detail and table, this sheet. Use pins with a minimum length of 8 inches and a minimum diameter of 3/16". At the top of bank, place blanket 12" onto the flood plain and anchor as shown.
10. If NRCS representative provides documentation on limitations or restrictions that rule out this treatment alternative, continue rock riprap placement to the top of bank. Indicate rock placement intentions by checking appropriate box on Section A or Section B (Sheet 2).
11. Extend keyways into bank at upstream and downstream ends, 8 ft minimum. If keyway depth cannot be achieved in the field, use a continuous row of 36" diameter boulders at the lowest practical elevation.

Erosion Blanket Anchor Schedule			
Mark	Location	Row Spacing	Column Spacing
1	Under Riprap	12" (2 rows)	24" staggered
2	On Slope	3' O.C.	4' O.C.
3	Top of slope	1 row	24" O.C.
4	Top on flat	1 row	24" O.C.
5	Begin/End Job	24" O.C.	2 columns, 12" O.C.



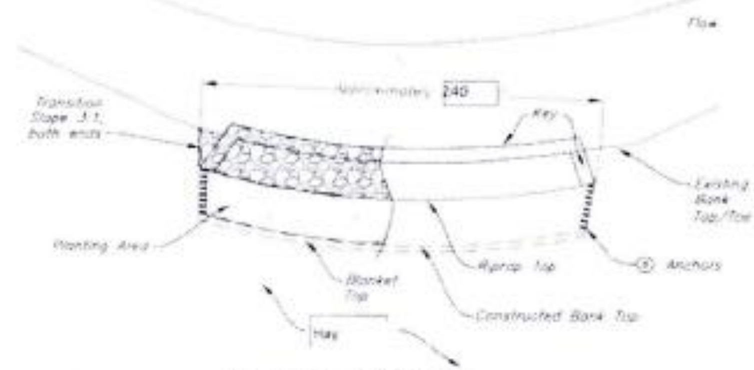
HALF BANK RIPRAP – TYPICAL SECTION
not to scale

Check Box to indicate proposed section ☑

Know what's below. Call before you dig. 811

Estimated Quantities*		
Item	Quantity	Unit
Rock Riprap	569	ton
Excavation	715	cu. yd
Geotextile or Bedding	658	sq. yd
Veg. Planting Area	238	sq. yd

*see sheet 2



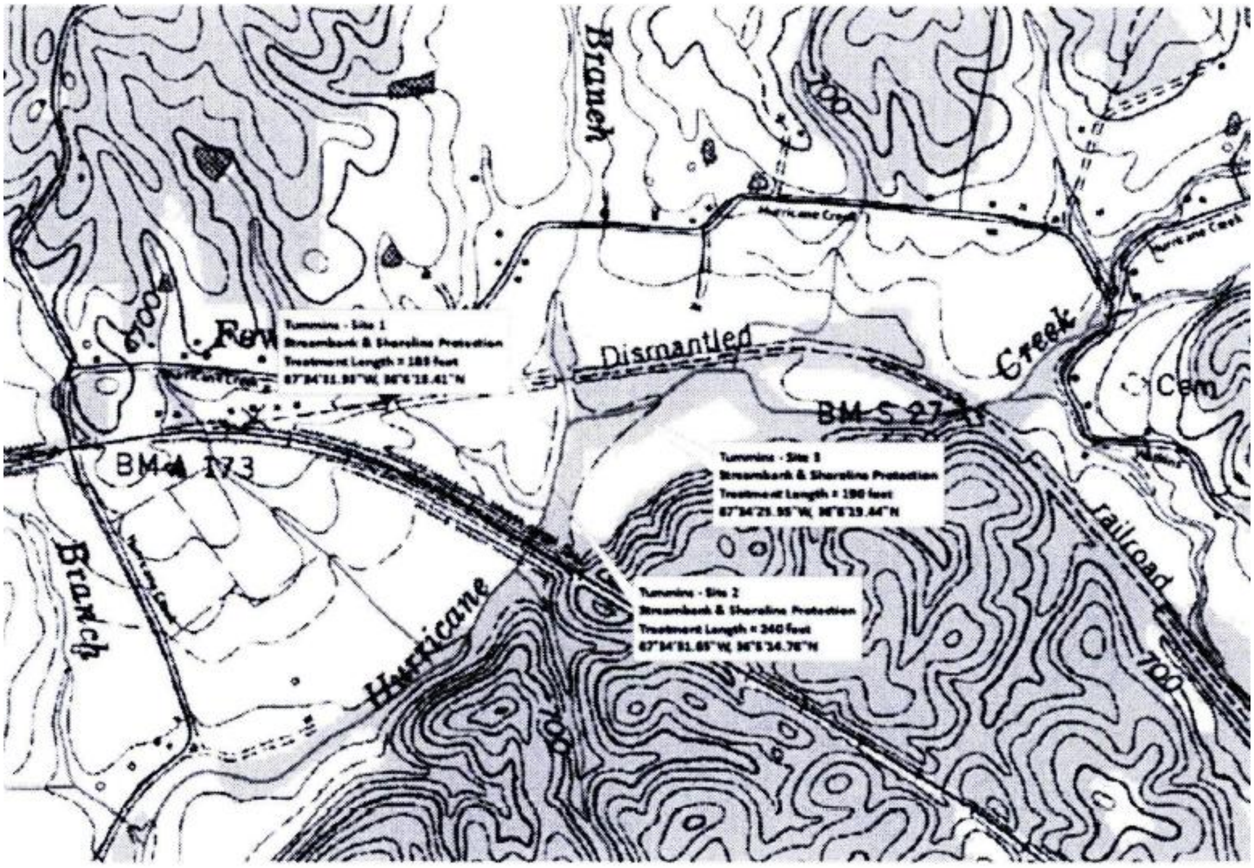
PLAN VIEW – TYPICAL SITE
not to scale

NRCS

Owner: Tummins - Site 2
Streambank & Shoreline Protection
NRCS Conservation Practice Standard 580

Designed Brown		Date
Drawn	Rose-Walsh/Brown	06/13
Checked	Brown	

File No.
Job Class 5
Sheet 1 of


Tummins - Site 1
Streambank & Shoreline Protection
Treatment Length = 183 feet
87°34'31.93"W, 36°6'18.41"N
Tummins - Site 3
Streambank & Shoreline Protection
Treatment Length = 190 feet
87°34'25.95"W, 36°6'19.44"N
Tummins - Site 2
Streambank & Shoreline Protection
Treatment Length = 340 feet
87°34'31.65"W, 36°6'14.76"N
Branch
Dismantled
Creek
BM S 27
BM 173
Hurricane
Branch
railroad
Cem
700